PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 17 MAR 2004
WIPO PCT

| Applicar | atle or occ | unto filo rafavana | | | |
|---|--------------------------|---|---|---|--|
| Applicant's or agent's file reference XXX | | FOR FURTH | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | | |
| International application No. PCT/IN 03/00148 | | International filing 07.04.2003 | g date (day/month/year) | Priority date (day/month/year) 05.06.2002 | |
| Internation C25B5 | onal Pate i/00 | nt Classification (IPC) o | r both national classific | cation and IPC | |
| Applican THE A | | NAL DIRECTOR (I | PR), DEFENCE | et al. | |
| 1. Th | nis intern uthority a | ational preliminary ex and is transmitted to t | kamination report ha he applicant accordi | is been prepared by this ling to Article 36. | nternational Preliminary Examining . |
| 2. Th | nis REPC | ORT consists of a total | al of 4 sheets, includ | ding this cover sheet. | |
| | been | amenueu anu ale in | e vasis for this repo | S, i.e. sheets of the descri rt and/or sheets containing nistrative Instructions unde | ption, claims and/or drawings which have g rectifications made before this Authority |
| Th | | exes consist of a tota | | | |
| 3. Th | is report | contains indications | relating to the follow | rina items: | |
| i | - | Basis of the opinion | | | |
| 11 | | Priority Priority | | | |
| Ш | _ | • | if opinion with recer | d to novolty inventive etc. | o and industrial applicability |
| IV | | Lack of unity of inver | | a to novelty, inventive ste | p and industrial applicability |
| V | \boxtimes | | t under Rule 66.2(a) | (ii) with regard to novelty, | inventive step or industrial applicability; |
| Vi | - | Certain documents o | - | | |
| VII | | Certain defects in the | e international applic | eation | |
| VII | | Certain observations | • • | | |
| Date of su | ıbmission | of the demand | | Date of completion of | this report |
| 22.12.2003 | | | | 16.03.2004 | |
| Name and preliminar | y examini | address of the internation | nal | Authorized Officer | GENERAL MILNE |
| European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | | | 656 epmu d | Del Piero, G | The state of the s |
| | | | | Telephone No. +49 8 | 9 2399-8579 |

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IN 03/00148

| I. Basis of the report | l. | Basis | of the | report |
|------------------------|----|--------------|--------|--------|
|------------------------|----|--------------|--------|--------|

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

| | De | escription, Pages | |
|----|-------------|---|---|
| | 1- | 16 | as published |
| | Cl | aims, Numbers | |
| | 1- | 10 | as published |
| | Dr | awings, Sheets | • |
| | 1/2 | ?-2 <i>[</i> 2 | as published |
| 2. | Wi lan | th regard to the lang guage in which the ir | uage, all the elements marked above were available or furnished to this Authority in the atternational application was filed, unless otherwise indicated under this item. |
| | The | ese elements were a | vailable or furnished to this Authority in the following language: , which is: |
| | | the language of a tr | anslation furnished for the purposes of the international search (under Rule 23.1(b)). |
| | | the language of pub | dication of the international application (under Rule 48.3(b)). |
| | | | anslation furnished for the purposes of international preliminary examination (under |
| 3. | Wit inte | h regard to any nucl ernational preliminary | eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing: |
| | | contained in the inte | ernational application in written form. |
| | | filed together with th | ne international application in computer readable form. |
| | | | ntly to this Authority in written form. |
| | | furnished subseque | ntly to this Authority in computer readable form. |
| | | The statement that in the international a | the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished. |
| | | The statement that the listing has been furn | the information recorded in computer readable form is identical to the written sequence ished. |
| • | The | amendments have r | esulted in the cancellation of: |
| | | the description, | pages: |
| | | the claims, | Nos.: |
| | | the drawings, | sheets: |
| | | | |

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International application No.

PCT/IN 03/00148

| 5. □ | This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)). |
|------|---|
| | (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.) |

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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Novelty (N) Yes: Claims 1-10

No: Claims

Inventive step (IS) Yes: Claims 1-10

No: Claims

Industrial applicability (IA) Yes: Claims 1-10

No: Claims

2. Citations and explanations

see separate sheet

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- Novelty of the present subject-matter is acknowledged on the basis of the presence of potassium permanganate in the mix.
- 2. The potassium permanganate double function of reactively suppressing the accumulation of native hydrogen (fig.2) while substaining the generation of heat over a longer period of time than was possible with prior formulations (fig.1) justifies the acknowledgment of an inventive step.

Other matters.

- The process according to claim 10 requires the addition of 2-20wt% sodium 1. silicate which, on the other hand, is only an optional component (0-20wt%) of the mix according to claim 1. It is therefore not clear whether this component is an essential feature of the mix according to the invention.
- Since apparently no electrical energy is involved in the reactions of the 2. components of the mix according to the invention, the expression "electrochemical" (and similar) used throughout the specification appears to be inaccurate.